

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

10/537,402

Source:

PCT

Date Processed by STIC:

06/14/2005

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 06/14/2005

PATENT APPLICATION: US/10/537,402

TIME: 09:04:13

Input Set : A:\dex-448.ST25.txt

Output Set: N:\CRF4\06142005\J537402.raw

3 <110> APPLICANT: diaDexus, Inc.  
 4 Macina, Roberto  
 5 Turner, Leah  
 6 Sun, Yongming  
 8 <120> TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes  
 and Proteins  
 10 <130> FILE REFERENCE: DEX-0448  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/537,402  
 C--> 12 <141> CURRENT FILING DATE: 2005-06-02  
 12 <150> PRIOR APPLICATION NUMBER: US 60/431,132  
 13 <151> PRIOR FILING DATE: 2002-12-04  
 15 <150> PRIOR APPLICATION NUMBER: US 60/431,144  
 16 <151> PRIOR FILING DATE: 2002-12-04  
 18 <160> NUMBER OF SEQ ID NOS: 240  
 20 <170> SOFTWARE: PatentIn version 3.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 547  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapien  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: misc\_feature  
 29 <222> LOCATION: (103)..(103)  
 30 <223> OTHER INFORMATION: n=a, c, g or t  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: misc\_feature  
 35 <222> LOCATION: (112)..(112)  
 36 <223> OTHER INFORMATION: n=a, c, g or t  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: misc\_feature  
 41 <222> LOCATION: (208)..(208)  
 42 <223> OTHER INFORMATION: n=a, c, g or t  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: misc\_feature  
 47 <222> LOCATION: (243)..(243)  
 48 <223> OTHER INFORMATION: n=a, c, g or t  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: misc\_feature  
 53 <222> LOCATION: (277)..(277)  
 54 <223> OTHER INFORMATION: n=a, c, g or t  
 57 <400> SEQUENCE: 1  
 58 cagaagagta ttcacgcctg caatgtaggt ggccgactcc tgtgtcagga caggccacct 60  
 W--> 60 acattgcaga agagtattca cgcctgcgca gccaggatag cantgagctc angacaccgg 120  
 62 ccagggacat tctcgcgagt tacagccctg aacgacgtgg aaactcgtga ttcgacgtgg 180  
 64 ccacatgccc gatgcgaagg ccctgcantg agcagagacg tgtggacccc tgcaggatgc 240

(Pg. 6)

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66 agncaggaag ctgtggagtt ggtccagtat gcttacnttt agagaagggtt cgtggagAAC 300
68 ggagaagaaa cgtaagaagc gaagtgamgg atkwastcar rgacagaaga tgaagaggag 360
70 aaaagccaag aggaycmkgr agcgaagagg aagagaagga agactcgcca gccagatgcc 420
72 aaagatgggg attcatagca mccctatgac ttcagtgaca cagaggagga aatgcctcaa 480
74 gtacacactc caaagacggc agactcacag gagaccaagg aatcccagaa agtggagttg 540
76 agtgaat 547
79 <210> SEQ ID NO: 2
80 <211> LENGTH: 325
81 <212> TYPE: DNA
82 <213> ORGANISM: Homo sapien
84 <400> SEQUENCE: 2
85 ggcctggatt aataccctc gaagacaagg aggactatgg gccgaataag gagtgtccac 60
87 tgtgcctttg tccaagattg tttgaatccc taagtcgaga tctcaaaagg actatggtgt 120
89 atacctagag gactcaggcc acactcttag aggtctcttc attattgatg acaaaggaat 180
91 cctaagacaa attactctga atgatcttcc tgtgggtaga tcagtggatg agacactacg 240
93 tttggttcaa gcattccagt acactgacaa acacggagaa gtctgccctg ccggctggaa 300
95 acctggtaa tgaaacaata atccc 325
98 <210> SEQ ID NO: 3
99 <211> LENGTH: 1165
100 <212> TYPE: DNA
101 <213> ORGANISM: Homo sapien
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: (44)..(44)
106 <223> OTHER INFORMATION: n=a, c, g or t
109 <220> FEATURE:
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111 <222> LOCATION: (50)..(50)
112 <223> OTHER INFORMATION: n=a, c, g or t
115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (57)..(58)
118 <223> OTHER INFORMATION: n=a, c, g or t
121 <220> FEATURE:
122 <221> NAME/KEY: misc_feature
123 <222> LOCATION: (60)..(61)
124 <223> OTHER INFORMATION: n=a, c, g or t
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128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (66)..(66)
130 <223> OTHER INFORMATION: n=a, c, g or t
133 <220> FEATURE:
134 <221> NAME/KEY: misc_feature
135 <222> LOCATION: (68)..(68)
136 <223> OTHER INFORMATION: n=a, c, g or t
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: (70)..(74)
142 <223> OTHER INFORMATION: n=a, c, g or t

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Input Set : A:\dex-448.ST25.txt

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145 <220> FEATURE:  
 146 <221> NAME/KEY: misc\_feature  
 147 <222> LOCATION: (76)..(76)  
 148 <223> OTHER INFORMATION: n=a, c, g or t  
 151 <220> FEATURE:  
 152 <221> NAME/KEY: misc\_feature  
 153 <222> LOCATION: (78)..(78)  
 154 <223> OTHER INFORMATION: n=a, c, g or t  
 157 <220> FEATURE:  
 158 <221> NAME/KEY: misc\_feature  
 159 <222> LOCATION: (80)..(81)  
 160 <223> OTHER INFORMATION: n=a, c, g or t  
 163 <220> FEATURE:  
 164 <221> NAME/KEY: misc\_feature  
 165 <222> LOCATION: (83)..(84)  
 166 <223> OTHER INFORMATION: n=a, c, g or t  
 169 <220> FEATURE:  
 170 <221> NAME/KEY: misc\_feature  
 171 <222> LOCATION: (87)..(87)  
 172 <223> OTHER INFORMATION: n=a, c, g or t  
 175 <220> FEATURE:  
 176 <221> NAME/KEY: misc\_feature  
 177 <222> LOCATION: (95)..(95)  
 178 <223> OTHER INFORMATION: n=a, c, g or t  
 181 <220> FEATURE:  
 182 <221> NAME/KEY: misc\_feature  
 183 <222> LOCATION: (98)..(98)  
 184 <223> OTHER INFORMATION: n=a, c, g or t  
 187 <220> FEATURE:  
 188 <221> NAME/KEY: misc\_feature  
 189 <222> LOCATION: (101)..(101)  
 190 <223> OTHER INFORMATION: n=a, c, g or t  
 193 <220> FEATURE:  
 194 <221> NAME/KEY: misc\_feature  
 195 <222> LOCATION: (104)..(104)  
 196 <223> OTHER INFORMATION: n=a, c, g or t  
 199 <220> FEATURE:  
 200 <221> NAME/KEY: misc\_feature  
 201 <222> LOCATION: (110)..(111)  
 202 <223> OTHER INFORMATION: n=a, c, g or t  
 205 <400> SEQUENCE: 3

W--> 206 aaccgctccg gcaacgcaa ccgctccgct gcgcgcaggc tggnetgcan gctctcnnn 60  
 208 ncagcncncn nnnnancnan nannccnctt ccaanatntc ncanctctcn ncctccctct 120  
 210 gctgcctgct ggtgttgcc aatgcccga gcaggccctc ttccatccc ctgtcggatg 180  
 212 agctgggtcaa ctatgtsaac aaacggaata ccacgtggca ggccggggcac aacttctaca 240  
 214 acgtggacat gagctacttg aagaggctat gtgggtacctt cctgggtggg cccaagccac 300  
 216 cccagagagt tatgtttacc gaggacctga agctgcctgc aagcttcgat gcacgggaac 360  
 218 aatggccaca gtgtcccacc atcaaagaga tcagagacca gggctcctgt ggctcctgct 420  
 220 gggccttcgg ggctgtggaa gccatctctg accgatctg satyacacc aatgcgcacg 480

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```

222 tcgagcgtgg aggtgtcggc ggaggacctg ctcacrtgct gtggcagcat gtgtggggac 540
224 ggctgtaatg gtggctatcc tgctgaagct tggaaacttct ggacaagaaa aggcctggtt 600
226 tctggtggcc atctatgaat cccatgtagg gtgcagaccg taytccatac cctccctgtg 660
228 agcaccacgt cgaaggggtc ccggbcccca tgcacggggg agggagatac ccscargtgt 720
230 agcaagakct gtgagcctgg gtacagaccg actayaaacw ggacamgcgy tayggataca 780
232 attctacagg tstccaatag cgaggacrtc atggcygaga tctmaaaaaa cggcccgtgg 840
234 agggagcttt ctctgtgtat cggacttcct ggtctagaag tcagggagtg taccaaacacg 900
236 tcaccggaga gatgattggg tgggcatgcc atccggatcc tgggctgggg agtggcgaag 960
238 gacaccctac tggtggttgc atcggaacac ctgactgggg tgacatgggt cttaaatacc 1020
240 cgaggcagga cacgtgggac cgcacacatg gggggggaac cggccgagca gcggaaaaat 1080
242 aatgcgggcg tggcaactgc gccacaggaa aacgtaatca gcacacaaaa agaggaggca 1140
244 ggaacaaccc ggaaactgac gtgga 1165

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247 &lt;210&gt; SEQ ID NO: 4

248 &lt;211&gt; LENGTH: 754

249 &lt;212&gt; TYPE: DNA

250 &lt;213&gt; ORGANISM: Homo sapien

252 &lt;220&gt; FEATURE:

253 &lt;221&gt; NAME/KEY: misc\_feature

254 &lt;222&gt; LOCATION: (29)..(29)

255 &lt;223&gt; OTHER INFORMATION: n=a, c, g or t

258 &lt;220&gt; FEATURE:

259 &lt;221&gt; NAME/KEY: misc\_feature

260 &lt;222&gt; LOCATION: (135)..(135)

261 &lt;223&gt; OTHER INFORMATION: n=a, c, g or t

264 &lt;220&gt; FEATURE:

265 &lt;221&gt; NAME/KEY: misc\_feature

266 &lt;222&gt; LOCATION: (176)..(176)

267 &lt;223&gt; OTHER INFORMATION: n=a, c, g or t

270 &lt;220&gt; FEATURE:

271 &lt;221&gt; NAME/KEY: misc\_feature

272 &lt;222&gt; LOCATION: (235)..(235)

273 &lt;223&gt; OTHER INFORMATION: n=a, c, g or t

276 &lt;220&gt; FEATURE:

277 &lt;221&gt; NAME/KEY: misc\_feature

278 &lt;222&gt; LOCATION: (256)..(256)

279 &lt;223&gt; OTHER INFORMATION: n=a, c, g or t

282 &lt;400&gt; SEQUENCE: 4

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W--> 283 tcacctccct ccacgaggac gattggcgnt ctccggccttc ccgggggccct gccctcacc 60
285 cgatccggga tgaggagtgg ggtggccact ccccccgag tcccagggga tgggaccagg 120
287 agcccgccag ggagnaggca ggcgggggct ggcgggccag gcggcccgcg gcccgntccg 180
289 atagacgcca ctggacgacc tcaccccgcc gagcacgca cgagtcaggg agcanctctc 240
291 ccacgaataa tggtgngaga agccgggcac tacatgcccc cgcagagccc cagccgggac 300
293 gacctctatg accaagacaa ctctagggac attcccacgc taccacaggc gacccccatc 360
295 tacgaacaa ttcaggctcc tcgggagcgc cctcctgcct accccaggtc ccaccaccac 420
297 cgtacccggg accctcgga caacggctcc aggtccgggg acctccccta tgatggcgcg 480
299 ctactggagg aggtctgtgag gaagaaagg gtcggaggag agggaggatac ccacaaagga 540
301 ggaggaggaa gaggcctact acccgccgc gccgcccccg tactcggaga ccgactcgca 600
303 ggcgtcccga gagcgcaggc tcaagaagaa cttggccctg agtcgggaaa gtttagtcgt 660
305 ctgatctgac gttttctacg tagcttityt attttttwty ytaatttgaa ggcacactga 720

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307 tgaagcatac cgtacccctc cgagttataa cgtc 754
310 <210> SEQ ID NO: 5
311 <211> LENGTH: 1269
312 <212> TYPE: DNA
313 <213> ORGANISM: Homo sapien
315 <400> SEQUENCE: 5
316 cagcccgcgc gggactgtg tgagtctgcg tctggtggga cggggacggg cgcggtggaa 60
318 gggtgatagg cgctgtgggt ttgagcttgg tgcgttggtc gcgttgaggg gggtatgttg 120
320 ttcggtgtcc tgtgtgtttg tatatgggat agtgtgtgct tggctgtgct gaggtgtgtg 180
322 ctcgggtgtg ttattggcgt ggtcagatgc gtcttgaggt tttcgtgagg cgcctttgtg 240
324 tgtccccggg cgcggggatg acgttgtgtt ggtcgtgggt tgcttgtggg agccacacgt 300
326 gggaactgcg gttggaaaat attatagaag ggctaaatgt gggggcccat cctcccttga 360
328 cgggatttgt atgatgtcta gtgagggacg cgacgtatgt gggggccttg gtttcctgtc 420
330 gtgcatctga gagtgtacgg tgttatggcg tgcactatgc cgtttctcaa aaaagtttcc 480
332 ttgttgaggc atagcatcag gagtctgagg tcgctctttg gtcattaccc ttgggaatat 540
334 taagtgtgtt catcaggctg gtgttgtag ttagtaaaca gctgtgttaa taattagagt 600
336 actggttctt aagtgatatc agttattgtt agggatgat gttaagacta ttgatttcac 660
338 ctatacagtg aggatatagg ttataaagag atacttcac cagcataccc ttactctgcc 720
340 agagtagtga agctaattaa acacgtttgg tttctgaata aattgaacta aatccaaact 780
342 atttcctaaa atcacaggac attaaggacc aatagcatct gtgccagaga tgtactgtta 840
344 ttagctggga agaccaattc taacagcaaa taacagtctg agactcctca tacctcagt 900
346 gttagaagca tgtctctctt gagctacagt agaggggaag ggattgttgt gtagtcaagt 960
348 caccatgctg aatgtacact gattccttta tgatgactgc ttaactcccc actgcctgtc 1020
350 ccagagaggc ttccaatgt agctcagtaa ttcctgttac ttacagaca ggaaagtccc 1080
352 agaaacttta agaacaaact ctgaaaacct atgagcaaat ggtgctgaat acwttttttt 1140
354 taaagccaca ttctattgtc ttagtcaaag caggmttatt aastgattat ttaaaattcr 1200
356 wywtkwtawa ttagcaactt caagtataac awcttwkaaa ctggaataag tgtttatttt 1260
358 ctattaata 1269
361 <210> SEQ ID NO: 6
362 <211> LENGTH: 1403
363 <212> TYPE: DNA
364 <213> ORGANISM: Homo sapien
366 <400> SEQUENCE: 6
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369 gggtgatagg cgctgtgggt ttgagcttgg tgcgttggtc gcgttgaggg gggtatgttg 120
371 ttcggtgtcc tgtgtgtttg tatatgggat agtgtgtgct tggctgtgct gaggtgtgtg 180
373 ctcgggtgtg ttattggcgt ggtcagatgc gtcttgaggt tttcgtgagg cgcctttgtg 240
375 tgtccccggg cgcggggatg acgttgtgtt ggtcgtgggt tgcttgtggg agccacacgt 300
377 gggaactgcg gttggaaaat attatagaag ggctaaatgt gggggcccat cctcccttga 360
379 cgggatttgt atgatgtcta gtgagggacg cgacgtatgt gggggccttg gtttcctgtc 420
381 gtgcatctga gagtgtacgg tgttatggcg tgcactatgc cgtttctcaa aaaagtttcc 480
383 ttgttgaggc atagcatcag gagtctgagg tcgctctttg gtcattaccc ttgggaatat 540
385 taagtgtgtt catcaggctg gtgttgtag ttagtaaaca gctgtgttaa taattagagt 600
387 actggttctt aagtgatatc agttattgtt agggatgat gttaagacta ttgatttcac 660
389 ctatacagtg aggatatagg ttataaagag atacttcac cagcataccc ttactctgcc 720
391 agagtagtga agctaattaa acacgtttgg tttctgaata aattgaacta aatccaaact 780
393 atttcctaaa atcacaggac attaaggacc aatagcatct gtgccagaga tgtactgtta 840
395 ttagctggga agaccaattc taacagcaaa taacagtctg agactcctca tacctcagt 900
397 gttagaagca tgtctctctt gagctacagt agaggggaag ggattgttgt gtagtcaaga 960

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 107, 112, 208, 243, 277  
Seq#:3; N Pos. 44, 50, 57, 58, 60, 64, 66, 68, 70, 71, 72, 73, 74, 76, 78, 80, 81, 83, 84, 87  
Seq#:3; N Pos. 95, 98, 101, 104, 110, 111  
Seq#:4; N Pos. 29, 135, 175, 235, 256  
Seq#:9; N Pos. 676  
Seq#:11; N Pos. 1175  
Seq#:14; N Pos. 911  
Seq#:16; N Pos. 7, 64, 66, 71, 73, 80, 95, 110, 136  
Seq#:30; N Pos. 554  
Seq#:54; N Pos. 3246  
Seq#:56; N Pos. 2734  
Seq#:57; N Pos. 3458  
Seq#:58; N Pos. 4085  
Seq#:60; N Pos. 2737  
Seq#:76; N Pos. 1081, 1122  
Seq#:96; Xaa Pos. 35, 70, 81, 93  
Seq#:97; Xaa Pos. 11, 39, 41, 42, 44, 55, 56, 57, 77  
Seq#:101; Xaa Pos. 16, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 34, 37, 153, 172  
Seq#:102; Xaa Pos. 45, 78, 85  
Seq#:103; Xaa Pos. 10, 45, 59, 79, 86  
Seq#:108; Xaa Pos. 54  
Seq#:112; Xaa Pos. 41, 42, 43, 46, 47, 48, 50, 57, 68, 95, 101, 110, 113  
Seq#:116; Xaa Pos. 89  
Seq#:118; Xaa Pos. 75  
Seq#:120; Xaa Pos. 32, 104  
Seq#:122; Xaa Pos. 2, 115, 119, 121, 123, 125, 126  
Seq#:123; Xaa Pos. 2, 21, 22, 23, 24, 26, 31, 36, 45  
Seq#:130; Xaa Pos. 1, 2  
Seq#:132; Xaa Pos. 181  
Seq#:143; Xaa Pos. 7  
Seq#:145; Xaa Pos. 9, 10  
Seq#:149; Xaa Pos. 4  
Seq#:174; Xaa Pos. 2, 6  
Seq#:177; Xaa Pos. 264  
Seq#:219; Xaa Pos. 6

## VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60  
M:341 Repeated in SeqNo=1  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
M:341 Repeated in SeqNo=3  
L:283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
M:341 Repeated in SeqNo=4  
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:660  
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:1140  
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:900  
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
M:341 Repeated in SeqNo=16  
L:1595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:540  
L:4301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:3240  
L:4513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:2700  
L:4644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:3420  
L:4797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:4080  
L:4997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:2700  
L:6541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1080  
L:7678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:32  
M:341 Repeated in SeqNo=96  
L:7761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0  
M:341 Repeated in SeqNo=97  
L:7969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0  
M:341 Repeated in SeqNo=101  
L:8050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:32  
M:341 Repeated in SeqNo=102  
L:8139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:0  
M:341 Repeated in SeqNo=103  
L:8336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:48  
L:8542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:32  
M:341 Repeated in SeqNo=112  
L:8820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:80  
L:8888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:64  
L:8990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:16  
M:341 Repeated in SeqNo=120  
L:9120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0  
M:341 Repeated in SeqNo=122  
L:9199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0  
M:341 Repeated in SeqNo=123  
L:9570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0  
L:9842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:176  
L:10425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:0  
L:10557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:0  
L:11035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:0  
L:13678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0  
L:14097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:256



**VERIFICATION SUMMARY**

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Input Set : A:\dex-448.ST25.txt

Output Set: N:\CRF4\06142005\J537402.raw

L:17437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219 after pos.:0